

Title (en)

NOVEL FLUORESCENCE QUENCHING PROBE FOR MEASURING NUCLEIC ACID

Title (de)

NEUARTIGE FLUORESZENZLÖSCHUNGSSONDE ZUR MESSUNG VON NUKLEINSÄURE

Title (fr)

NOUVELLE SONDE D'EXTINCTION DE FLUORESCENCE POUR MESURER UN ACIDE NUCLÉIQUE

Publication

EP 3633049 A1 20200408 (EN)

Application

EP 18809563 A 20180517

Priority

- JP 2017105202 A 20170529
- JP 2018019095 W 20180517

Abstract (en)

The present invention provides a QProbe that can be fluorescently labeled at a lower cost. A nucleic acid probe labeled with a fluorescent dye whose emission is reduced when the probe is hybridized with a target nucleic acid is provided. The probe is labeled with a fluorescent dye at its 5' terminal site via an ssH amino linker as shown below or at its 3' terminal site via a CA amino linker as shown below. The base sequence of the nucleic acid probe is so designed that, when the probe is hybridized with a target nucleic acid, at least one G (guanine) exists in the base sequence of the target nucleic acid at a position 1 to 3 bases apart from the base at the terminal site where the probe and the target nucleic acid are hybridized with each other.

IPC 8 full level

C12Q 1/6876 (2018.01); **C12N 15/09** (2006.01)

CPC (source: EP)

C07H 21/00 (2013.01); **C12N 15/09** (2013.01); **C12Q 1/6832** (2013.01); **C12Q 1/6876** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3633049 A1 20200408; **EP 3633049 A4 20210317**; CN 110637095 A 20191231; JP 7058645 B2 20220422; JP WO2018221240 A1 20200416; WO 2018221240 A1 20181206

DOCDB simple family (application)

EP 18809563 A 20180517; CN 201880033206 A 20180517; JP 2018019095 W 20180517; JP 2019522108 A 20180517